



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,969	12/27/2001	Azusa Iwai	YOK-101	1793

24956 7590 10/03/2005

MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.
1800 DIAGONAL ROAD
SUITE 370
ALEXANDRIA, VA 22314

EXAMINER

SINGH, SATWANT K

ART UNIT	PAPER NUMBER
----------	--------------

2626

DATE MAILED: 10/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/026,969

Applicant(s)

IWAI, AZUSA

Examiner

Satwant K. Singh

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 May 0205.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-9 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____

DETAILED ACTION

1. This office action in response to the amendment filed on 23 May 2005.

Response to Arguments

2. Applicant's arguments, see amendment, filed 23 May 2005, with respect to the rejection(s) of claim(s) 1, 2, 4, 5, 8, and 9 under Mori et al. (US 6, 433,882) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Ueda (US 6,538,764).

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1, 3-6, 8, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Ueda (US 6,538,764).
4. Regarding Claim 1, Ueda discloses a computer readable medium having a print-control program to acquire print data, that creates intermediate files of the print data, reads the files into a memory, converts the files, and creates actual-data-for-printing, said print control program comprising: a print data acquisition step to acquire print data of a page (printing on page basis) (col. 24, lines 44-58); an intermediate file creation step to divide the acquired print data of a page into parts wherein the file size of each said part is within predetermined bounds (using RAM having a capacity smaller than the size of the dot image data of one full page to be printed) (co. 24, lines 44-58) and to

create a plurality of intermediate files (page-basis document data is divided into a plurality of bands, converting the received printing information into intermediate codes on a band basis) (col. 24, lines 44-58); and an actual-data-for-printing creation step to read the plurality of intermediate files into memory for predetermined conversions, and create actual-data-for-printing from the plurality of intermediate files (intermediate codes of each band are converted into dot image corresponding to the band, so as to be subject to printing) (col. 24, lines 56-58).

5. Regarding Claim 3, Ueda discloses a medium, wherein said intermediate file creation step, setting said predetermined bounds to a file size for depending on free space in the memory (size of the vacant area) (col. 26, lines 27-37).

6. Regarding Claim 4, Ueda discloses a medium, wherein said actual-data-for-printing creation step reads only one of the plurality of intermediate files into the memory at a time (intermediate codes of the next document of the same page area are then stored in the vacant area) (col. 25, lines 9-32).

7. Regarding Claim 5, Ueda discloses a medium, wherein said actual-data-for-printing creation step further comprises: creating a record list that makes the plurality of intermediate files correspond to a plurality of target zones into which a page print area is partitioned (Fig. 16B, display list); referring to the record list for each said target zone (Fig. 16B, start and end data for bands); and reading the intermediate files corresponding to each said target zone into the memory (Fig. 15, memory map of printer) (col. 44, lines 10-17); and creating said actual-data-for-printing for each said target zone (printing is performed) (col. 44, lines 18-24).

Art Unit: 2626

8. Regarding Claim 6, Ueda discloses a medium, wherein said actual-data-for-printing creation step further comprises: registering an address having a unit to draw included in an intermediate file, into said record list in such a manner as to make the address connected with one or a plurality of said target zones for all units to draw filed in the intermediate files created (Fig. 16B, plurality of band data); referencing an address or addresses connected with each said target zone from the record list (Fig. 16B, Bands 1001 start and end, and Band 1002 start and end); and reading the unit or units to draw stored at the referenced address or addresses into the memory (Fig. 15, memory map).

9. Claims 8 and 9 are rejected for the same reason as claim 1.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda in view of Fukuta (US 6,226,095).

12. Regarding Claim 2, Ueda fails to teach a medium further comprising a step for setting the predetermined bounds to a file size based on a user-preference setting, wherein at said intermediate file creation step, the acquired print data of a page are

divided so as to create said plurality of files within said predetermined bounds set by said user-preference setting.

Fukuta teaches a medium further comprising a step for setting the predetermined bounds to a file size based on a user-preference setting, wherein at said intermediate file creation step, the acquired print data of a page are divided so as to create said plurality of files within said predetermined bounds set by said user-preference setting (storage areas designated by the user) (col. 12, lines 3-7).

Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have combined the teachings of Ueda with the teaching of Fukuta to allow a user to determine the file size of the page data to be outputted.

13. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda in view of Nakagiri (US 6,493,099).

14. Regarding Claim 6, Ueda fails to teach a medium wherein in creating a plurality of intermediate files of divisional bitmap data at said-intermediate file creation step, the acquired print data that consists of bitmap data are divided into a plurality of parts of the bitmap data corresponding to said target zones.

15. Nakagiri teaches a medium wherein in creating a plurality of intermediate files of divisional bitmap data at said-intermediate file creation step, the acquired print data that consists of bitmap data are divided into a plurality of parts of the bitmap data corresponding to said target zones (printer control, (rendering) commands corresponding to bit-map data renderings) (col. 9, lines 64-67, col. 10, lines 1-2).

Art Unit: 2626

16. Therefore, it would have been obvious to one of ordinary skill in the art to have combined the teachings of Ueda with the teaching of Nakagiri to create images based on rendering commands.

Conclusion

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Contact Information

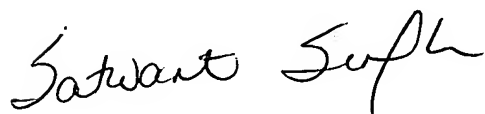
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Satwant K. Singh whose telephone number is (571)

Art Unit: 2626

272-7468. The examiner can normally be reached on Monday thru Friday 8am - 4:30pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A. Williams can be reached on (571) 272-7471. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



sks

Satwant K. Singh
Examiner
Art Unit 2626



KIMBERLY WILLIAMS
SUPERVISORY PATENT EXAMINER